



#### PATENT APPLICATION

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q85489

Shigeyuki IWASA, et al.

Appln. No.: 10/519,933

Group Art Unit: 1745

Confirmation No.: 5310

Examiner: Not Yet Assigned

Filed: December 29, 2004

For:

SECONDARY BATTERY

#### SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

For the Examiner's convenience, enclosed herewith is a copy of the English translation of the International Preliminary Report on Patentability (IPRP). It is assumed that copies of the cited references as required by §371(c) will be supplied directly by the International Bureau, but if further copies are needed, the undersigned will undertake to provide them upon request.

Respectfully submitted,

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WASHINGTON OFFICE 23373 CUSTOMER NUMBER

Date: May 15, 2006

Registration No. 25,665

## PATENT COOPERATION TREATY



PCT/JP2004/002468

## From the INTERNATIONAL BUREAU

# PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER 1 OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

HAMADA, Haruo Wisdom House 4-12, Minami-Aoyama 3-chome Minato-ku, Tokyo 1070062 JAPON

Date of mailing (day/month/year) 23 March 2006 (23.03.2006)	
Applicant's or agent's file reference pf-3238	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/002468	International filing date (day/month/year) 01 March 2004 (01.03.2004)
Applicant	NEC CORPORATION et al

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The International Bureau transmits here patentability (Chapter I).	with a copy of the English translation of the international preliminary rep	ort on
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The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

#### 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

#### None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Masashi Honda

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# PATENT COOPERATION TREATY

# **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

	See item 4 below				
ernational filing date (day/month/year) March 2004 (01.03.2004)	Priority date (day/month/year) 28 February 2003 (28.02.2003)				
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237					
Applicant NEC CORPORATION					
į	March 2004 (01.03.2004)	March 2004 (01.03.2004) 28 February 2003 (28.02.2003) ion unless older edition indicated)			

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).					
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.					
	In the attached sheets, any refer to the international preliminary	ence to the written opinion of the International Searching Authority should be read as a reference report on patentability (Chapter I) instead.				
3.	This report contains indications	relating to the following items:				
	Box No. I	Basis of the report				
	Box No. II	Priority				
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	Certain defects in the international application				
	Box No. VIII	Certain observations on the international application				
4.	The International Bureau will conot, except where the applicant date (Rule 44bis .2).	ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority				

	Date of issuance of this report 16 March 2006 (16.03.2006)	_
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Masashi Honda	
Facsimile No. +41 22 740 14 35	Telephone No. +41 22 338 70 10	
Form PCT/IB/373 (January 2004)		_

# PATENT COOPERATION TREATY

From the INTERNATION	ONAL SEARCHING AUTHOR	RITY		
То:				PCT Tallagon
				RITTEN OPINION OF THE IONAL SEARCHING AUTHORITY
				(PCT Rule 43bis.1)
			Date of mailing (day/month/year)	15.06.2004
Applicant's or pf-323	agent's file reference		FOR FURTHER A	ACTION See paragraph 2 below
	application No.	International filing date (		
PCT/JI	2004/002468	01.03.2004		Priority date (day/month/year) 28.02.2003
	Patent Classification (IPC) or both	national classification an	d IPC	
H01M4/	60			
Applicant				
NEC CO	ORPORATION et al	L		·
l. This	inion contains indications rela	et e - el- a fall annia e ita-		
	s opinion contains indications relat	ing to the following nems	<b>#</b>	
	Box No. I Basis of the	opinion		
	Box No. II Priority	•		
	Box No. III Non-establia	shment of opinion with res	gard to novelty, inventi	ve step and industrial applicability
	Box No. IV Lack of unit	ly of invention		
$\boxtimes$	Box No. V Reasoned stapplicability	atement under Rule 43bis. y: citations and explanation	.1(a)(i) with regard to mas supporting such state	sovelty, inventive step or industrial ement
Ш	Box No. VI Certain docu	uments cited		
	Box No. VII Certain defe	ects in the international app	plication	
$\boxtimes$	Box No. VIII Certain obse	ervations on the internation	nal application	
2. FUI	RTHER ACTION			
i nici i han	mational Preliminary Examining	Authority ("IPEA") except chosen IPEA has notified	that this does not applethe International Bure	be considered to be a written opinion of the ly where the applicant chooses an Authority other au under Rule $66.1bis$ (b) that written opinions of
If th writt	is opinion is, as provided above.	considered to be a written	n opinion of the IPEA.	the applicant is invited to submit to the IPEA a of 3 months from the date of mailing of Form expires later.
For	further options, see Form PCT/IS/	A/220.		
3. For (	further details, see notes to Form !	PCT/ISA/220.		
Name and mai	ling address of the ISA/JP		Authorized officer	
Facsimile No.			71. 1. 1.	
racamble 140.			Telephone No.	

# WRITTEN OPINION OF THE NTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/002468

		INTERNATIONAL SEARCHING AUTHORITY	PCT/JP2004/002468
Box !	No. I	Basis of this opinion	
1.	With filed.	regard to the language, this opinion has been established on the basis of the internationless otherwise indicated under this item.	ional application in the language in which it was
		This opinion has been established on the basis of a translation from the original langu	nage into the following language
3	-	which is the language of a translation furnished Rule 12.3 and 23.1(b)).	d for the purposes of international search (under
	77 Pr. 1		
2.	inven	regard to any nucleotide and/or anilno acid sequence disclosed in the internati tion, this opinion has been established on the basis of:	ional application and necessary to the claimed
	a.	type of material	
		a sequence listing	·
	İ	table(s) related to the sequence listing	
	. <b>b.</b>	formal of material	
		in written format	
		in computer readable form	
	c.	time of filing/furnishing	
		contained in the international application as filed.	
		filed together with the international application in computer readable form.	
	į	furnished subsequently to this Authority for the purposes of search.	
3. [	_	In addition, in the case that more than one version or copy of a sequence listing a furnished, the required statements that the information in the subsequent or additional filed or does not go beyond the application as filed, as appropriate, were furnished.	nd/or table(s) relating thereto has been filed or all copies is identical to that in the application as
4.	Addit	ional comments:	
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WRITTEN OPINION OF THE	
INTERNATIONAL SEARCHING AUTHORITY	

International application No. PCT/JP2004/002468

→→→ Sughrue, Mion

Bo	x No. V	Reasoned stateme	nt under R	ula 43his 1/a)(i) with mound to	novelty, inventive step or industrial applicabilit	
		citations and expl	anations su	pporting such statement	novelly, inventive step or industrial applicabilit	y;
1.	Statement					
	Novelty (	(N)	Claims	1-12		YES
			Claims	-		NO
l .	Inventive	e step (IS)	Claims	1-12		YES
			Claims			NO
	Industrial	l applicability (IA)	Claims	1-12	·	YES
			Claims			NO

2. Citations and explanations:

Claims 1-12 are novel and involve an inventive step.

The feature in the secondary cells set forth in claims 1-12 whereby a polymer having a repeating unit represented by formula (1) or a polymer represented by formula (2) is included as an active material is not disclosed in the documents cited in the international search report and is not obvious to a person skilled in the art.

#### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2004/002468

→→→ Sughrue, Mion

Box No. VIII

Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by

The scope of the inventions set forth in claims 1, 2, 4, 5, 7, 8, 10 and 11 includes secondary cells provided with any electrolyte, such as an aqueous electrolyte; however, the only electrolytes mentioned by the description are electrolytes containing an organic solvent, and solid polymer electrolytes. Therefore, the inventions set forth in claims 1, 2, 4, 5, 7, 8, 10 and 11 are not fully supported by the description.